

ACAST Workshop
August 24-25, 2004

OCEANIC/REMOTE
COMMUNICATIONS & SURVEILLANCE
BREAKOUT SESSION

Oceanic/Remote C&S Sub-project

Welcome:

All, Co-chair, Speakers, and Recorder.

Kevin Grimm (FAA) - What FAA is doing

Mike Harrison (AMA) – Where we'll want to go

Kathy Kearns (SITA) - What providers can do

Bryan Welch (NASA) - What we should remember

Isi Greenfeld (NASA) - What should we do

Intent of Workshop:

ACAST Oceanic/Remote motivation & plans

Gather participants' perspectives re: required and doable

Help us focus on the practical

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Situation:

VHF limited to horizon.

HF unreliable.

Fixed routes and procedural separations

Global trade requires global access

Emerging Pacific Rim calls for Polar Routes

Africa & Asia have no/little infrastructure

AMSS “global” coverage; “relatively” expensive

Pilot and controller workload and errors

U.S. responsible for 80% of oceanic domain

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Is this the Big Question? --

Can we leverage AMSS –

Airline Operations

Airline Administration

Passenger Services

To obtain, AMSS –

Air Traffic Services?

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Is this the Big Answer? --

ADS over AMSS –

ID

“Accurate” position + Next

W_x

“Frequent” updates

Automated

“Direct Pilot/Controller”

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History:

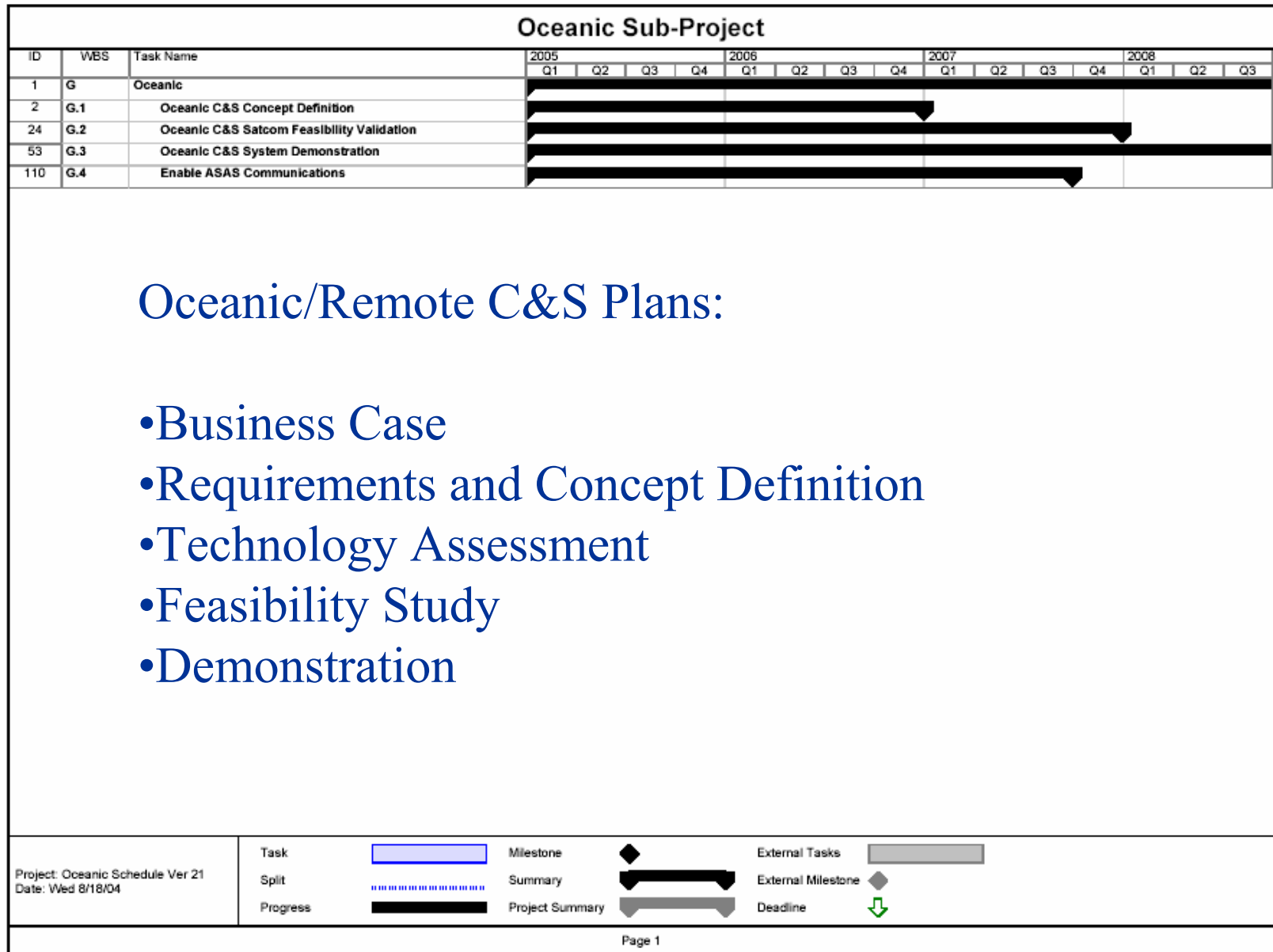
Aeronautical Satcom visions, plans, studies, efforts around since the 70s.

Support from ICAO, FAA, Airlines, and Industry.

Efforts include demos/tests; most recently Capstone & Boeing GCNSS.

ACAST's Challenge:

What can we reasonably get into place within the next 10 years?



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Discussion Questions:

What we came up with ---

- What cost elements are presenting barriers to full equipage with satcom avionics capable of enabling 30/30 separation in oceanic domains?
- What are the regional differences in Oceanic ATC regimes that must be considered in developing both global and transparent oceanic solutions?
- What is the value of real-time, oceanic weather data and should it be factored into the oceanic communications solution?

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Discussion Questions:

What I'd like to ask ---

- What are top 3 oceanic problems?
- What technologies would ameliorate them?

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Discussion: